

OTAI SPECIAL STEEL is 8620 Alloy steel stockholders and suppliers from china. more 16 years experience in AISI 8620 steel supply.

AISI 8620 alloy Steel is a high quality Quenched and Tempered Alloy Structural steel, It belong to the high quality low carbon, Low alloy chromium, molybdenum, nickel case hardening steel. Oil Quenched & Tempered Hardenss is 28-34 HRC. AISI 8620 steel Annealing delivery hardenss less than 250HB.

AISI 8620 Alloy structural steel properties is a Nickel chromium molybdenum alloy steel specification. 8620 With a lower carbon content range, So AISI 8620 alloy steel have good weldability. AISI 8620 Steel is equivalent to Din 21NiCrMo2 | W-Nr 1.6523, GB 20CrNiMo, BS 805M20, NF 20NCD2, JIS SNCM220 Steel. Most applications can replace each others

Related Specifications ASTM A29/A29M DIN EN 10083/3 JIS G4053 GB GB/T 3077

Form of Supply

AISI 8620 Alloy steel, we can supply the round bar, steel flat bar, plate, hexagonal steel bar and steel square block. AISI 8620 steel Round bar can be sawn to your required lengths as one offs or multiple cut pieces. 8620 alloy steel Rectangular pieces can be sawn from flat bar or plate to your specific sizes. Ground tool steel bar can be supplied, providing a quality precision finished bar to tight tolerances.



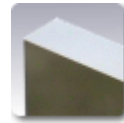
Round



sheet



Square



Plate

Chemical composition

C(%)	0.18~ 0.23	Si(%)	0.15~0.35	Mn(%)	0.70~ 0.90	P(%)	≤0.035
S(%)	≤0.040	Cr(%)	0.40~0.60	Mo(%)	0.15~ 0.25	Ni(%)	0.40~ 0.70

Heat treatment Related

① Annealing of 8620 Alloy structural steel

Slowly heated to 850 °C and allow enough times, let the steel to be thoroughly heated, Then cool slowly in the furnace. The 8620 alloy steel will get MAX 250 HB (Brinell hardness) .

② Hardening of 8620 Alloy structural steel

Heated slowly to 880–920° C, Then after adequate soaking at this temperature quench in oil. Temper as soon as tools reach room temperature.

Mechanical Properties

The mechanical properties of annealed AISI 8620 alloy steel are outlined in the table below

Tensile	Yield	Bulk modulus	Shear modulus	Poisson's ratio	Izod Impact
KSI	KSI	KSI	KSI		ft. lb
76900	55800	20300	11600	0.27–0.30	84.8

Applications

AISI 8620 steel is widely used for a variety of applications in the used in the automotive and engineering industries for toolholders and other such components. Typical applications such as valve bodies, pumps and fittings, Shaft, the high load of wheel, bolts, double-headed bolts, gears, etc

Regular size and Tolerance

1) Hot Rolled round bar

Diameter (mm)	Diameter Tolerance (mm)	Diameter (mm)	Diameter Tolerance (mm)
≤12.70	-0.13 ~0.30	>50.80~63.5	-0.25~0.76
12.7~25.40	-0.13~0.41	>63.50~76.20	-0.25~1.02

>25.4~38.10	-0.15~0.51	>76.20~101.60	-0.30~+1.27
>38.1~50.80	-0.20~0.64	>101.60~ 203.20	-0.38~3.81

2) Hot Rolled steel plate

Thickness (mm)	Thickness Tolerance (mm)	Thickness (mm)	Thickness Tolerance (mm)
≤25.4	-0.41~0.79	>127~152	-1.60~2.39
>25.4~76	-0.79~1.19	>178~254	-1.98~3.18
>76~127	-1.19~1.60	>254~305	-2.39~3.96

Others 8620 have not specified size, pls [contact](#) our experienced sales team.

[Processing](#)

AISI 8620 alloy steel round bar and flat sections can be cut to your required sizes. 8620 alloy steel ground bar can also be supplied, providing a high quality tool steel precision ground tool steel bar to your required tolerances. AISI 8620 steel is also available as Ground Flat Stock / Gauge Plate, in standard and nonstandard sizes.

Contact our experienced sales team to help you with your 8620 alloy steel questions and enquiry by [Email](#) or Telephone. The questions will be reply in 24 hours.

OTAI SPECIAL STEEL CO., LTD

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